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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/985,673	11/05/2001	Hartley Moyes	6240.241	4016

7590 01/04/2007  
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EXAMINER
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NGUYEN, CHI Q

ART UNIT	PAPER NUMBER
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3635

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/04/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## Office Action Summary

Application No.

09/985,673

Applicant(s)

MOYES, HARTLEY

Examiner

Chi Q Nguyen

Art Unit

3635

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 11 October 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 18-20 and 23-39 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 18-20 and 23-39 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not-received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

This Office action is in response to the applicant's amendment filed on 10/18/2006.

#### ***Status Of Claims***

Applicant cancelled claims 1-17, and 21-22.

Claims 18-20, and 23-39 have been examined.

#### ***Response to Arguments***

Applicant's arguments filed 10/18/2006 have been fully considered but they are not persuasive.

In regard applicant argued that Lynch does not teach a molded door skin having bond strength of at least 2.0N/mm<sup>2</sup> (or preferably a bond strength of at least about 2.5N/mm<sup>2</sup>). Although the prior arts do not teach the specific range of bonding strength; However, as set forth above, the applicant's disclosure fails to show the criticality for specifically claimed bonded strength; therefore, it would have been obvious of a design choice to use the bonded strength range such specified in the claims. Furthermore, the applicant's disclosure, pages 6-9 (as preferred by the applicant's remarks) expressly stated that "preferably a bond strength of at least about 2.5N/mm<sup>2</sup>" would made a better bonding strength than the prior art, Masonite Corporation (1.4N/mm<sup>2</sup>). At the time of the invention was made, one having an ordinary skill in the art would obviously made a stronger bonding (greater than 1.4N/mm<sup>2</sup>) by providing a stronger bonding material to achieve a desirable result, 2.0-2.5N/mm<sup>2</sup>, etc. It should be noted that the claims are

Art Unit: 3635

drawn to an article; therefore, only structural limitations are considered for patentable weight.

***Claim Rejections - 35 USC § 103***

Claims 18-20, 25-29, and 32-36, 39 stand rejected under 35 U.S.C. 103(a) as being unpatentable over US Pat. No. 5,766,774 to Lynch.

Claims 18, 19, 33, 36:

Lynch discloses a molded hollow door core comprising a door frame 20, first, second door skins 11, 11a, are attached to the door frame 20 so as to define a hollow core area 59 therebetween, at least one of said skins being a molded wood door skin (see Col. 1, lines 32-34, and 50-51), said one molded door skin having molded therein a plurality of panels 14, 15, (Figure 1) or 41-46 (Figure 2). Lynch does not specifically disclose the molded skin door has bond strength of at least about 2.0 or preferably 2.5N/mm<sup>2</sup>. Applicant fails to show criticality for the specifically claimed bond strength. The specific range of bond strength for the door skins would have been an obvious engineering design choice to provide appropriate bond strength for door skin and to prevent the skins from separating from the frame.

Claims 20, 25, 34, 35:

Lynch discloses the basic structural elements for door skins as stated and further teaches (Col. 2, lines 16-18) wherein each of said first and second door skins is a molded door skin formed by pressing a mat and transferring it under heat and pressure to form the wood composite. However, Lynch does not teach expressly the molded door

Art Unit: 3635

skin having density of at least about 550kg/m<sup>3</sup> to about 1200kg/m<sup>3</sup> or 800 to about 1200kg/m<sup>3</sup> or has a substantially constant density. Applicant fails to show criticality for specifically claimed skin density; therefore it would have been an obvious design choice to use the skin density such specified in these claims. Having a specific range of density for door skins would have been an obvious engineering design choice to provide a hardness for door skins so providing stronger door structures. Furthermore, since the claims set forth an apparatus of the hollow core door, and the citation "a molded door skin formed by pressing a loose bat or mat into a wood composite flat door blank having a density of at least about 550kg/m<sup>3</sup>, and thereafter moisturizing, heating, and reforming in a press said flat door blank into a molded door skin..." is considered as a method of forming door skins and is not germane to the issue of patentability of the door skins. Therefore, this limitation has not been given patentable weight.

Claim 26:

Lynch discloses the basic structural elements for the claimed invention as stated, wherein further said one molded door skin has an outer planar portion, an inner planar portion, and a contoured portion 12/12a between and integral with said outer and inner planar portion (Fig. 3).

Claim 27:

Lynch discloses the basic structural elements for the claimed invention as stated, wherein further said outer planer portion lies on a plane that is coplanar with the plane of said inner planer portion (see Figs. 1-2).

Claim 28:

Lynch discloses the basic structural elements for the claimed invention as stated and further said contoured portion includes an angled offset portion 31-36 (Fig. 2) or 18-19 (Figure 1).

Claim 29:

Lynch discloses the basic structural elements for the claimed invention as stated and further said contoured portion has a thickness differing from the thickness of said outer an inner planar portions.

Claims 32 and 39:

Lynch discloses the basic structural elements for the claimed invention and further discloses a void 59 which can provide sufficient weight properties and sound properties (see col. 6, lines 60-61). However, Lynch does not specifically disclose a filler is a foam, at the time of the inventions was made it would have been obvious to a person in the art having an ordinary skill to fill with foam material for providing a thermal protection.

Claims 23, 24, 30-31, and 37-38 stand rejected under 35 U.S.C. 103(a) as being unpatentable over US Pat. No. 5,766,774 to Lynch in view of US Pat. No. 5,219,634 to Aufderhaar.

Claims 23, 24, 30, 31, and 37-38:

Lynch discloses the basic structural elements for the claimed invention as stated. However, Lynch does not specifically teach wherein said one molded door skin has an exteriorly disposed side having a moisture impervious barrier thereon and the moisture impervious barrier is selected from the group consisting of melamine impregnated crepe

Art Unit: 3635

paper, phenolic resin crepe paper, and cross-lined polymer resin, and wherein said one molded door skin has an exteriorly disposed side having a pigmented sealer provides a uniform colored surface. Aufderhaar teaches a well-known prior art molded door assembly including an overlaid laminate of phenolic resin-impregnated paper (Col. 1, lines 16-23). In view of Aufderhaar, it would have been obvious to one having an ordinary skill in the art at the time the invention was made to provide Lynch's invention with door skin laminated of phenolic resin-impregnated paper and sealer applied to exterior surfaces. The motivation for doing so would have been to provide weather resistance to door panels and also to enhance the appearance of the door surfaces.

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Art Unit: 3635

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Chi Q. Nguyen whose telephone number is (571) 272-6847. The examiner can normally be reached on Monday-Friday from 7:30 am-4:00 pm.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Naoko Slack can be reached at (571) 272-6848.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pairedirect.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197.

  
CQN  
12/22/2006

  
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TECHNOLOGY CENTER 3600